PTO/PCT Rec'd 22 AUG 2001

IN THE UTATES PATENT AND TRADEM OFFICE

Applicants:

Michael KNEPPER et al

Serial No.:

09/831,377

Filed:

August 22, 2001

For:

USE OF ZINC ALLOYS

RESPONSE TO NOTIFICATION OF MISSING REQUIREMENTS UNDER 35 U.S.C. 371

Box PCT Assistant Commissioner of Patents Washington, D.C. 20231

Attention:

APPLICATION BRANCH

MISSING REQUIREMENTS OF APPLICATION

Sir:

With respect to the above-identified national phase application, the following are filed herewith in response to the Notification of Missing Requirements under 35 U.S.C. 371, mailed June 22, 2001, copy attached.

- X Declaration in compliance with 37 C.F.R. §1.63.
- X Information Disclosure Statement.
- X Assignment document with Cover Sheet and \$40.00 fee for Recordation of Assignment.

It has been indicated on the Notice that Claim 1 under Article 34 has not been entered and that a fee of \$270.00 for multiply dependent claim(s) is required.

However, Applicant respectfully submits herewith the International Preliminary Examination Report (IPER) in which it is indicated that the single claim filed on December 8, 2000, replaces the four claims originally filed. Therefore, only the single amended claim should be considered in this application and, consequently, no fee for multiply dependent claim(s) is now required.

#3

Serial No.: 09/831,377

X If a Petition for Extension of time is necessary and the Petition and/or the check is not enclosed, this will act as the Petition and applicant herewith petitions the Commissioner to extend the time for response and charge and fees necessary under 37 CFR 1.17 (a) - (d) to Deposit Account No. 06-1358. The Commissioner is also authorized to charge payment of any other additional fees associated with this communication or credit any overpayment to Deposit Account No. 06-1358. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

JACOBSON HOLMAN PLLC

William E. Player Reg. No. 31,409

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Atty. Docket: P66680US0 Date: August 22, 2001

WEP:jrc





PCT

NOTIFICATION OF TRANSMITTAL OF COPIES OF TRANSLATION OF THE INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Rule 72.2)

	From the INTERNATIONAL BUREAU	
	То:	<u> </u>
	WERNER, Hans-Karsten Postfach 10 22 41 18 JUNI 2001 D-50462 Köln ALLEMAGNE	
ł	/	

IMPORTANT NOTIFICATION

International filing date (day/month/year)

11 November 1999 (11.11.99)

Date of mailing (day/month/year) 06 June 2001 (06.06.01)

Applicant's or agent's file reference

99239Iwo W/hg

International application No. PCT/EP99/08664

GRILLO-WERKE AG et al

Transmittal of the translation to the applicant.

The International Bureau transmits herewith a copy of the English translation made by the International Bureau of the international preliminary examination report established by the International Preliminary Examining Authority.

2. Transmittal of the copy of the translation to the elected Offices.

The International Bureau notifies the applicant that copies of that translation have been transmitted to the following elected Offices requiring such translation:

PL,US

Applicant

The following elected Offices, having waived the requirement for such a transmittal at this time, will receive copies of that translation from the International Bureau only upon their request:

EP,SI

3. Reminder regarding translation into (one of) the official language(s) of the elected Office(s).

The applicant is reminded that, where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report.

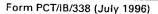
It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned (Rule 74.1). See Volume II of the PCT Applicant's Guide for further details.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Authorized officer

Zakaria EL KHODARY

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Telephone No. (41-22) 338.83.38



Facsimile No. (41-22) 740.14.35

Translation

PATENT COOPERATION TREA PCT



INTERNATIONAL PRELIMINARY EXAMINATION REPORT

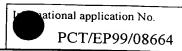
(PCT Article 36 and Rule 70)

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Applicant's or agent's file reference 99239lwo W/hg	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)
International application No. PCT/EP99/08664	International filing date (day/month/year) Priority date (day/month/year) 11 November 1999 (11.11.99) 17 November 1998 (17.11.98)
International Patent Classification (IPC) or na C22C 18/04,	
Applicant	GRILLO-WERKE AG
This REPORT consists of a total of _	6 sheets, including this cover sheet.
been amended and are the bas	ed by ANNEXES, i.e., sheets of the description, claims and/or drawings which have sis for this report and/or sheets containing rectifications made before this Authority of the Administrative Instructions under the PCT).
These annexes consist of a tot	al of sheets.
3. This report contains indications relating	ig to the following items:
Basis of the report	
II Priority	
III Non-establishment o	f opinion with regard to novelty, inventive step and industrial applicability
JV Lack of unity of inve	ntion
V Reasoned statement to citations and explana	under Article 35(2) with regard to novelty, inventive step or industrial applicability; tions supporting such statement
VI Certain documents ci	ted .
VII Certain defects in the	international application
VIII Certain observations	on the international application
Date of submission of the demand	Date of completion of this report
06 June 2000 (06.06.00) 13 March 2001 (13.03.2001)
Name and mailing address of the IPEA/EP	Authorized officer
Facsimile No.	Telephone No.

INTERNATIONAL PREL

ARY EXAMINATION REPORT



I. Basis of the report		
This report has been draw under Article 14 are referred	on the basis of (Replacement sho d to in this report as "originally filed	eets which have been furnished to the receiving Office in response to an invitation d" and are not annexed to the report since they do not contain amendments.):
	onal application as originally filed	
the description	on, pages1-5	, as originally filed,
	pages	, filed with the demand,
•	pages	, filed with the letter of
	pages	, filed with the letter of
the claims,	Nos.	, as originally filed,
	Nos	, as amended under Article 19,
	Nos.	, filed with the demand,
	Nos. <u>1</u>	, filed with the letter of
		, filed with the letter of
the drawings,	sheets/fig	, as originally filed,
	sheets/fig	, filed with the demand,
	sheets/fig	, filed with the letter of,
		, filed with the letter of
2. The amendments have resu		
the description	, pages	
the claims,	•	
the drawings,	,	
<u> </u>	Shoots/rig	
This report has been to go beyond the disc	established as if (some of) the an closure as filed, as indicated in the	nendments had not been made, since they have been considered e Supplemental Box (Rule 70.2(c)).
4. Additional observations, if	necessary:	
redictional observations, in	necessary.	
		. •

	Intional	application No.
1	PEP	99/08664

√.	Reasoned statement under Article 3 citations and explanations supporting		ty, inventive step or industrial app	olicability;
١.	Statement			
	Novelty (N)	Claims	1	YES
		Claims		NO
	Inventive step (IS)	Claims	. 1	YES
		Claims		NO NO
	Industrial applicability (IA)	Claims	1	YES
	,	Claims		NO NO

2. Citations and explanations

This report makes reference to the following documents:

D1: S.W.K. MORGAN: "Zinc and its alloys and compounds", 1985, pages 175-176

D2: PATENT ABSTRACTS OF JAPAN, Vol. 1998, No. 14, 1998-12-31 & JP-A-10 237 613 & DATABASE WPI S. Ch, W.9846 Derwent Publications Ltd, London, GB; Class M, page 13-A, AN 1998-537918

D5: DE-A-30-07-850 (mentioned in the application)

D6: DE-C-715 511

The composition as per Claim 1 is not known from the cited prior art. Claim 1 therefore meets the requirements of PCT Article 33(2).

The known alloy according to DIN 17770 (i.e. titanium zinc), which is used in practice as "constructional zinc", differs from the claimed alloy. Zinc alloys comprising 2-20% Al and, optionally, 0.001-2% Ti are known to be used as galvanizing alloys.

The alloys designated "superplastic zinc" in D1,

which may be used as strips or sheets, contain ≥20% Al.

2. D6, in particular page 2, left-hand column, line 10 to right-hand column, line 57, represents the closest prior art.

D6 describes (left-hand column, "B") an alloy in the form of sheets or strips for deep-drawing purposes, comprising:

10-15% Al

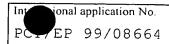
0.0-1.0% Cu, and

50-100 ppm Mg, zinc residue (99.99%).

The alloy as per Claim 1 differs from D6 in the proportion of Mg and the proportions of C, V and Si.

Although D6 contains a specific teaching on the relation between the magnesium admixture and high corrosion resistance (page 2, left-hand column, lines 10-15 and 26-35), the recommended amounts of Mg lie outside the claimed range. However, D6 contains no suggestion of a presumed addition of C, V, Si or Ni.

The claimed use in the form of "strips and sheets 3. produced by casting and rolling" excludes the use of coating processes and the products thereof (e.g. steel plates or sheets coated with similar Zn-Al alloys for constructional purposes: D2). This comment also applies to mechanically plated products: for example, the known products and the process and use disclosed by D5. However, D1, D2 and D5 mention different compositions from those



claimed in Claim 1.

4. The problem addressed by the present application consists in producing a corrosion-resistant product. Comparison of the subject matter of Claim 1 with the previously known teaching shows that the composition of the claimed alloy represents a novel choice of use.

The claimed combination of constituents has not previously been disclosed in the prior art. The selected range appears to be "specific".

Claim 1 therefore meets the requirements of PCT Article 33(2) and (3).

VII. Certain defects in the international application

The following defects in the form or contents of the international application have been noted:

- 1. Pursuant to PCT Rule 5.1(a)(iii), the description should be brought into line with the claims.
- Pursuant to PCT Rule 5.1(a)(ii), the description should have cited D6 and briefly outlined the relevant prior art disclosed therein.
- The number of patent DE 17 58 498 (page 1, paragraph 2) is presumably incorrect.

VIII. Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

Clarity:

- 1. The application does not meet the requirements of PCT Article 6 because Claim 1 has not been drafted in the most expedient way: in Claim 1 no residue (i.e. "Zn residue") is defined and consequently the alloy cannot be interpreted as a zinc base alloy.
- 2. In the present form of the application the constituents In, Ca or Mn should be considered "optional constituents" (i.e. non-compulsory) and therefore as not entering into the sum of the constituents: the expression "sowie gegebenfalls" ("and optionally") includes elements that may be absent, that is, "sowie ggf." ("and optionally") describes an optional feature.

Further, the elements C, V, Si and Ni and the impurities Cu and Fe are mentioned in Claim 1 after the term "sowie" ("and"). It is therefore unclear whether these elements are qualified by the expression "and optionally" or should be considered controlled and necessary constituents of the claimed alloy.

3. The statement in accordance with PCT Rule 66.2(a)(ii) is made here on the assumption that in Claim 1 the elements C, V and Si are present (necessary elements), Ni is optional (Claim 1: "and/or") and the impurities Cu and Fe are deliberately controlled.